

Notice of Allowability

Application No.

09/767,383

Examiner

Charles Chow

Applicant(s)

WAHL, MARTIN

Art Unit

2685

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/6/2004.
2. ☒ The allowed claim(s) is/are 1-6 and 8.
3. ☐ The drawings filed on _____ are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☒ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☒ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

Claims 1-6, 8 are allowable over the prior art of record. Applicant has amended independent claims 1, 8, with claimed features for which the prior art fails to teach singly, particularly, or in combination, the subject matter for controlling the transmitting power of a battery-operated transceiver for saving battery power, in which the claimed features contains the outputting of the difference signal from the comparison device, in the gain controlling of the power amplifier (Fig. 1-2), such that the comparison device outputs the difference signal with a zero-amplitude when an amplifier of the signal coupled to the supply voltage is above an amplitude of the reference signal, outputting the difference signal with an amplitude different from the from the zero-amplitude of the difference signal in the positive direction when the amplitude of the signal coupled to the supply voltage lies below the amplitude of the reference signal; the circuit configuration comprising a battery; a power stage for controlling amplification of a radio signal, the power stage having a gain; a comparison device having an input side for receiving a reference signal and a signal coupled to the supply voltage, the comparison device having an output side for supplying a difference signal; a control device for controlling the gain of the power stage depending on the difference signal; a digitally operating functional unit supplied by the supply voltage, the functional unit generating a switch-off signal in dependence on the supply voltage for switching off the transceiver, as shown in independent claims 1, 8. The dependent claims are also allowable due to their dependency upon the independent claims.

The closest patent to Tamura et al. (US 4,709,404) teaches the battery power radio

communication device (Fig. 9), having gain control circuit for power amplifier 4, having comparator (19) for outputting difference signal a anode of diode 20, by comparing the supply voltage at "+" terminal with the reference voltage at "-" terminal. The difference signal at comparator output via diode 20 which can not provide a output signal having positive direction via diode 20 due to cathode of the diode 20 is connected to the output of the comparator 19 which blocks the position direction voltage to go through diode 20 to reach anode of the diode, while applicant's supply voltage is connected to the negative terminal of the comparator 42, and there is not diode connected at the comparator output.

Tamura fails to teach the digitally operating functional unit supplied by the supply voltage, the functional unit generating a switch-off signal in dependence on the supply voltage for switching off the transceiver

Other prior arts in below has been considered, but they fail to teach the above claimed features.

Satoh et al. (US 2002/0028,701 A1) teaches the battery voltage monitoring means 40, 50, the digital control unit 60 in a portable telephone 10 for detecting battery voltage for falling below predetermined value (abstract, [0040-0041, 0043-0044], Fig.5), the switching-off disconnecting instruction signal from a digital control unit 60, 150 [0050, 0057-0058, Fig. 6], for stopping the power supplying to the radio transceiver unit 160 [0065]. Satoh fails to teach the gain control loop with difference signal output from a comparator for comparing supply voltage with a reference voltage, the comparison device outputs the difference signal with a zero-amplitude when an amplifier of the signal coupled to the supply voltage is above

an amplitude of the reference signal, outputting the difference signal with an amplitude different from the from the zero-amplitude of the difference signal in the positive direction when the amplitude of the signal coupled to the supply voltage lies below the amplitude of the reference signal

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Chow whose telephone number is (703)-306-5615.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703)-305-4385.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to: (703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Art Unit: 2685

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Charles Chow C.C.

September 25, 2004.



EDWARD F. URBAN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600